

# HEART OF THE ANDES

PICTURES TAKEN IN THE ATTIC OF A CONTINENT.

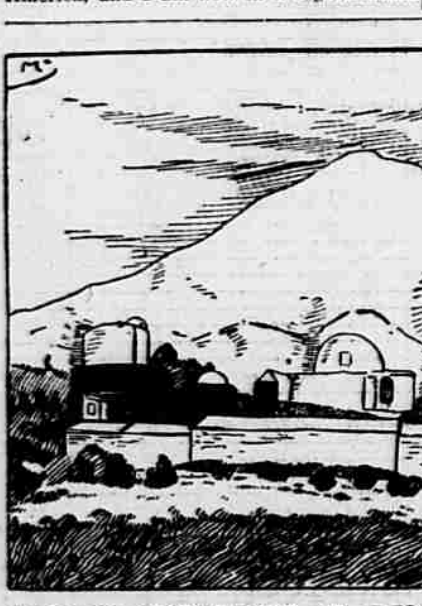
## MOST EXPENSIVE RAILROAD

WHERE PRETTY GIRLS ARE CAGED IN BY IRON BARS.

The Observatory at Arequipa—Life and Love in the Capital of Southern Peru—Something About the People Who Live Nearest the Sky.

(Copyright, 1898, by Frank G. Carpenter.)

PUNO, PERU, May 26, 1898.—I write this letter in the attic of the Southern Andean continent. I am in the heart of the Andes mountains on what, with the exception of Tibet, is the loftiest tableland of the globe. At my feet is the western shore of Lake Titicaca, the highest water of the earth upon which steamboats sail, and looking down upon me is the snowy peak of Illimpu, which, next to Aconcagua, in Chile, is the highest of the Andes. During the past week I have been traveling among the most wonderful mountains of South America, and I am now in a region which



HARVARD OBSERVATORY AT AREQUIPA—MT. MISTI IN THE DISTANCE.

has not its counterpart upon the planet. Here and in other parts of the mountains of Peru are the highest places where people live. During my trip up the Oroya railroad I found a village of about 200 souls at an altitude of more than three miles above the sea. There is a mining camp in the Peruvian Andes which is more than 15,000 feet high, and in crossing the desolate plain known as the Pampa de Arrieros I stopped some time at Vinocaya, where there is a locomotive roundhouse higher up in the air than the top of Pike's Peak. In coming here I traveled for two days over one of the steepest railroads in the world, and now, at a distance of more than 300 miles from the Pacific, I am on the great plateau which lies between the two ranges of the Andes, varying in altitude from 12,000 to 13,000 feet above the sea. I am hundreds of miles south of the point where I crossed the great mountains from Lima and in a region where the Andes are more grand than at any point in the 4,000 miles of their length. A peak of a mountain which rises up from the sky so that its ragged, snowy summit is four miles above the level of the ocean. Imagine, if you can, on the top of a mountain 20,000 feet high. Make a wall of such mighty hills and paint them in the wonderful colors, shades and tints of the Andean skies, and you can get a faint idea of my surroundings. I have with me many books upon South America, but I fail to find in them any descriptions of the scenic effects of these mountains. This is the region of all others for the artist, and yet no great artist has attempted to transfer these wonderful pictures to canvas.

**Pictures From the Andes.**  
My trip over the Andes was a continuous panorama. Let me give you my notes of the scenes along the route as I jotted them down on the way. I begin at Mollendo on the Pacific ocean. It is a ragged town on the rugged coast of the Peruvian desert. The ship lies out in the harbor and the surf rolls in with great force, striking the rocks and sending the diamond spray fifty feet upward into the air. The harbor is rougher than that at Jaffa, and my baggage is lowered into a launch by means of a pulley and a rope. I have to jump into the boat when it is on the crest of the waves, and I feel my stomach rising as I jump down into the deep. The landing is so bad that men and baggage are often thrown into the water, and I am told that the steamer companies always charge one-eighth of 1 per cent more on all goods shipped to Mollendo. I am now on the coast, and the water is brackish, colored brown with mud, and the air is heavy with the smell of the sea. I am now on the coast, and the water is brackish, colored brown with mud, and the air is heavy with the smell of the sea. I am now on the coast, and the water is brackish, colored brown with mud, and the air is heavy with the smell of the sea.

great engineering feats of the world. There is talk of extending it to Bolivia, and it may some time be a part of a transcontinental line, reaching to Paraguay and the Argentine Republic. At present it belongs to the Peruvian corporation, the English funds which look Peru's interest in consideration of relieving the country of its foreign debt, but it is managed by an American, Mr. Victor H. McCormick, who keeps it in almost as good condition as any road you will find in the United States. All of the rolling stock is American pattern, though of late the cars and engines have been made by Peruvians in the company's shops at Arequipa.

Arequipa is the halfway station on the road to Lake Titicaca, and it is there that the general offices of the road are situated. I visited the railroad shops and found 400 Peruvians engaged in all kinds of car construction. They make engines as good as any used in our country, and have some which are especially adapted to the heavy grades of the Andes. The shops are in charge of an American, a Mr. Beaumont, of New Jersey, but all of the mechanics are then foreign. It may interest our railroad men to know the wages which their kind receive down here. I give them the little value of the silver in the American gold values and not in the silver in which they are paid. Trackmen receive \$10 a month, and the men who work on the rails are paid from \$10 to \$15 a month, and conductors are paid from \$20 to \$35 a month, and the men who work on the rails are paid from \$10 to \$15 a month, and conductors are paid from \$20 to \$35 a month.

A City of Vaults and Iron Bars.

Arequipa is the second city of Peru. It has about 25,000 people, and is still lighted by coal oil, though an electric lighting plant is now being put in. The town lies on the little valley of the Chile river, which makes an oasis of green in the midst of the desert and gives Arequipa about fifty odd square miles of irrigable land. Arequipa

is the commercial capital of the southern part of the country, and a great part of the trade of Bolivia passes through it. The city is a mixture of Spanish, German and English, and there is not an American house in the city. I have seen in South America. It is 400 odd years old, and has been the scene of many earthquakes of the past, but as you go through it you get the impression that the town is a new one, and that the old one has been buried under the ruins of the new one.

**AN AREQUIPA BELIEF.**

conditions of the atmosphere, the velocity of the winds, the pressure of the barometer and the other things which are of value to the scientist, and the observatory has been established on the top of Mount Misti. This mountain is one of the highest of the Andes. It lies just back of the city, and the town lies against the horizon almost alone in its grandeur, its top kissing the sky at an altitude of 13,500 feet above the sea. It is some thousands of feet higher than any other observatory in the world. The site of the station is on the edge of a huge crater, which now and then sends clouds of yellow sulphurous vapor a thousand feet into the air. Mount Misti is an extinct volcano, but it is not dead, as it may at any time break out in eruption. In this great altitude, nearly four miles above the sea, the Harvard men have built the finest of scientific instruments for registering the

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**INDIANS OF THE PAMPAS.**

does rain it sometimes pours. At such times the streets were very bad, and the mud from the roofs is carried out by little tin pipes, as big around as a broomstick, to the street, and the mud is carried out by little tin pipes, as big around as a broomstick, to the street, and the mud is carried out by little tin pipes, as big around as a broomstick, to the street.

**Harvard Men Watch the Stars in Peru**

The most interesting thing in Arequipa, however, is the Harvard college observatory. Just about twenty years ago Uriah H. Bordien died and left \$200,000 to Harvard college, with the understanding that the money was to be used to establish an observatory at the very best place that could be found in the whole world for study of the stars and meteorological conditions. The college authorities first tried points in Colorado and California, and then sent an expedition to South America. This expedition was led by a man named John A. Baird, and he found the best place in the world for study of the stars and meteorological conditions. The college authorities first tried points in Colorado and California, and then sent an expedition to South America. This expedition was led by a man named John A. Baird, and he found the best place in the world for study of the stars and meteorological conditions.

and constellations which we never see. The Milky Way south of the equator is far more brilliant than it is in our heavens, and the stars are many other things than with different movements. You have all heard of the Southern Cross, which my friend, Dr. Palmer, says looks like him like the handwriting of God on the face of the sky. I don't think much of it. It is a merely cross of stars, and there are only four stars in it that are not at all bright, and you have to look hard to find them. There are, however, under the largest outside of this, and the best observations made so far in recent years of the Southern heavens have been by these Harvard scientists. They have four great telescopes at Arequipa, which night after night through the nine clear months of the year are pointed at the stars. Connected with each of these telescopes is a photographic apparatus, which records the movements of such stars as the scientists wish to study, and which by fine mechanical movements, and which stars until their images and those of their surroundings are registered upon the photographic plate. The largest of these instruments is a telescope which is 14 feet in diameter, and gives photographs on plates 14x17 inches in size. I took a look through the telescope during my visit to the observatory. The tube of the instrument must weigh more than a ton, but it is so delicately hung that a child could move it. It runs by a clock and a heavy weight. The chief part of the work done at the observatory is photographing the heavens. Five photographic instruments are kept going and about fifty plates are made every night. Last year more than 8,000 plates were exposed and developed. The negatives are shipped at once to the University of Harvard, at Cambridge, and are used for study and scientific work. They are kept on file there and form a wonderful astronomical library of the Southern heavens. Through this observatory Harvard college has the best advantages of the world for astronomical research. The scientists of Cambridge are always watching the Southern heavens, but they cannot see much of the equator. The Arequipa observatory takes in the whole sky from the equator to the South pole, the two giving a complete view of the heavens.

**World's Highest Observatory Station.**

Within the last few years the Arequipa astronomers have established a station on the top of Mount Misti. This mountain is one of the highest of the Andes. It lies just back of the city, and the town lies against the horizon almost alone in its grandeur, its top kissing the sky at an altitude of 13,500 feet above the sea. It is some thousands of feet higher than any other observatory in the world. The site of the station is on the edge of a huge crater, which now and then sends clouds of yellow sulphurous vapor a thousand feet into the air. Mount Misti is an extinct volcano, but it is not dead, as it may at any time break out in eruption. In this great altitude, nearly four miles above the sea, the Harvard men have built the finest of scientific instruments for registering the

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**MENAGERIE ON HIS HANDS.**

A Mahometan Speculator Unable to Dispose of Beasts and Reptiles.

From the New York Press.

Under the shadow of burlap hangings in one corner of the deck of the steamer Bahama, and another attractive at a few days ago, sits a Mahometan, Sheikh Bhandoo, surrounded by the cages of animals which he has brought to this country from India on a speculation. His dark eyes have a mournful expression and his lips are set in a sad smile. He is a man of about 40 years of age, and he is not communicative. The voyage was a bad one, particularly bad, he says, and then lapses into silence. No, he has not seen any of his animals; he does not know whether he can, and the hopelessness deepens in his dark face.

There are in the sheik's collection green doves, hornbills, partridges, tapers, deer, peacocks, squirrels, crowned pigeons, blue spotted parrots, and a number of other birds of strange birds and beasts from Bhandoo. Each cage has a name and a number, and the sheik is very particular about them. He is a man of about 40 years of age, and he is not communicative. The voyage was a bad one, particularly bad, he says, and then lapses into silence. No, he has not seen any of his animals; he does not know whether he can, and the hopelessness deepens in his dark face.

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